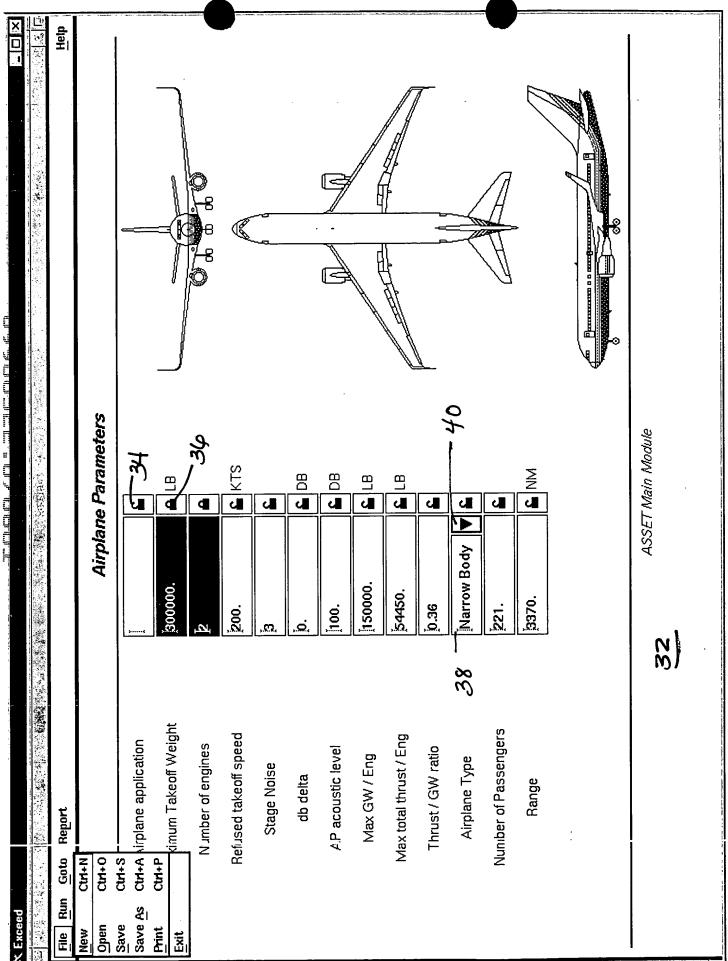
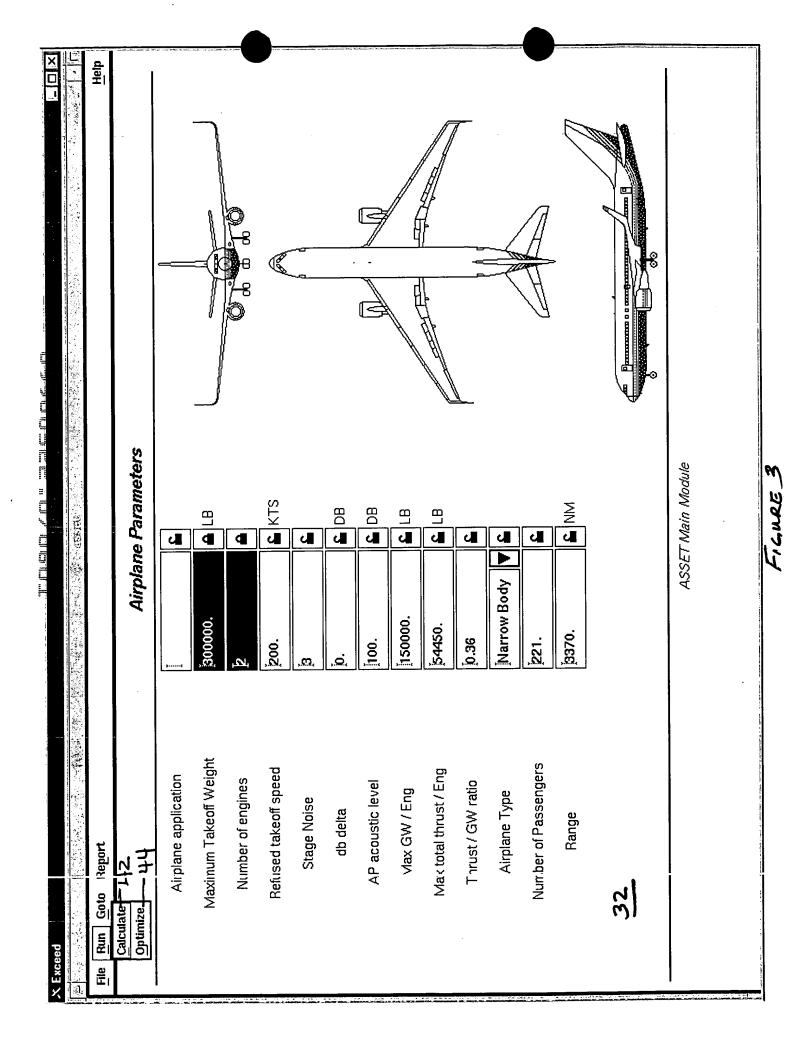
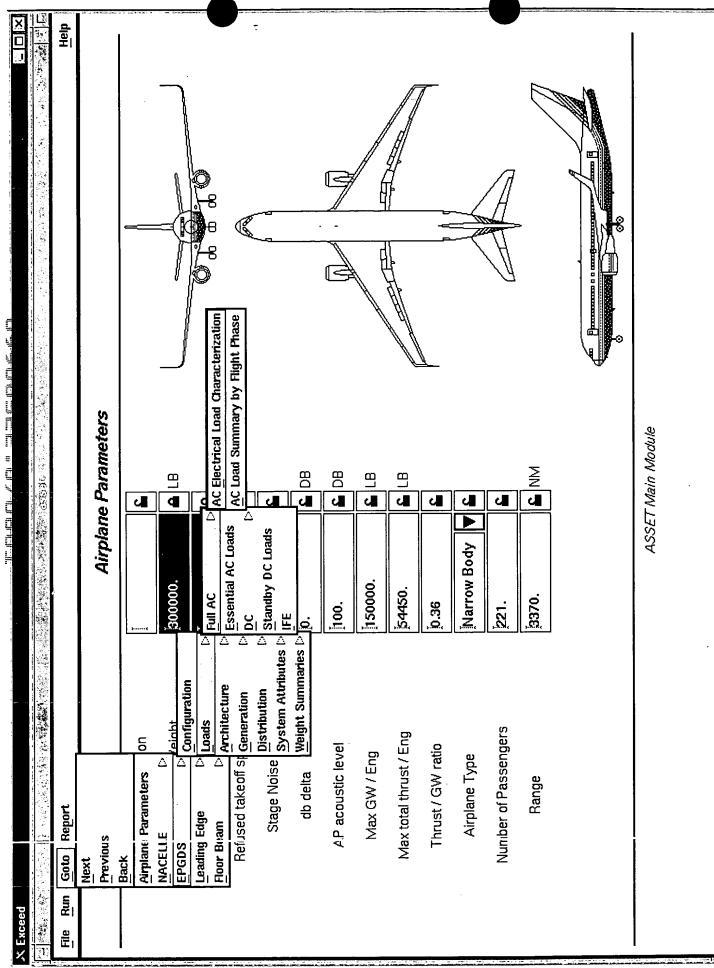


FIG. 1







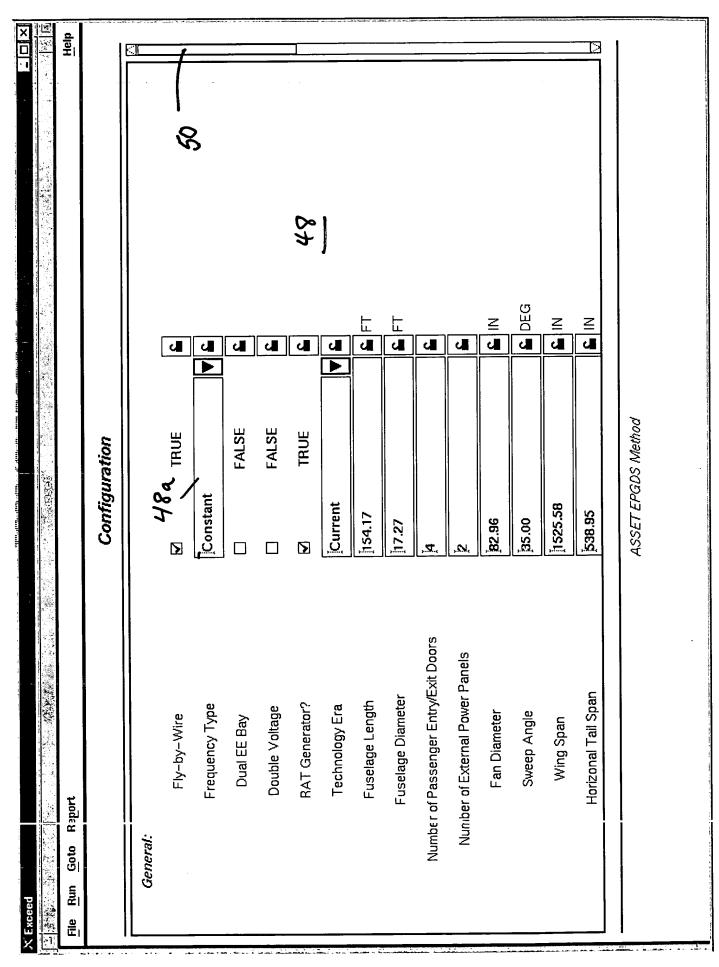


FIGURE SA

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		#1	Help
1	Configuration		<u> </u>
Body CL to O/B Engine CL	00·0	NI J	ខា
Side-of-Body to I/B Engine CL	Ĭ122.43	<u> </u>	A X
Side-of-Body to O/B Engine CL	00·0j	Z. (4)	Market and the contract of
Dist. along LE 1/B Eng. to Side-of-Body	ž63.32	<u> </u>	e e e e e e e e e
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Dist. from Fwd. E/E Bay to Front Spar BS	Ĭ0.00	N.	No. of section 2
Dist from I/B Eng. to EE Bay	je47.27	Z.	francisco de estado e
Dist. from O/B Eng. to EE Bay	j0.00	Z.	Transfer #
Length of Main EE Bay	ğ1.72	<u> </u>	
H – Lower Lobe Height	56.02	Z.	
W1 Cabin Width	198.98	N.	
W2 Cargo Floor Width	Ĭ107.78	Z.	. 4.16
Main E/E Bay Volume	ž57.2	FT73	
Strut location	⊭an	u u	
Accessory location	Core		
	ASSET EPGDS Method		l

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X Exceed		######################################	m dela della compania			
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a parameter a state of the stat	Number of TRUs	of TRUs	3.0	O	70	
Qúa «Cons	Number of ACMPs	f ACMPs	ž.0			
	Number of Window/Windshield Heaters	Windshield Heaters	0.0			
	Number of Lavatories	Lavatories	0.6			-
Number of Wide Body Pumps	<u>)</u>	■ Number of N	Number of Narrow Body Pumps	9.0	u II	
Number of Wide Body Boost Pumps	0.0	Number of Narr	Number of Narrow Body Boost Pumps	, <u>e</u> ,	4	
Number of Wide Body Override Pumps	Ĭ.0.0	Number of Narro	Number of Narrow Body Override Pumps)S j0.0	⋴	
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	S				Ŭ	Ĭ13.72	, 0.68	Ď.64	,3.38 ,3.38		Ď.20	0.07	, <u>o</u> ,		* z. '	, 0.30	0.12		
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X Exceed		File Run G			ATAS	21 Aii	22	23 Co	24 Ele	25 Equipi	26 Fi	27 F		29 Hydrau	30 lce/	31	32.1	Maximum	

### AC Load Summary by Flight Phase Passenger Loading Engine Start Finding Gear				
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♦ 5.000 \$\mathbb{C}\$ \$\mathbb{D}\$ \$\m	\$\begin{align*}	00.0ĭ	00.0	1.00 2
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FIGURE 7B

### But Got Report #### AC Load Summary by Flight Phase		4m.3			41	The Control And		THE STATE OF	S. C.	1. A.						数の				
## AC Load Summary by Flight Phase Take-off & Climb	Run Gote																l		ı	
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\$\(\) \(\)	36 Pneumatics	\$, 00.0			Ĭ.00			Ď.00			00.1			0.00	$\overline{}$		1.00	녜	_
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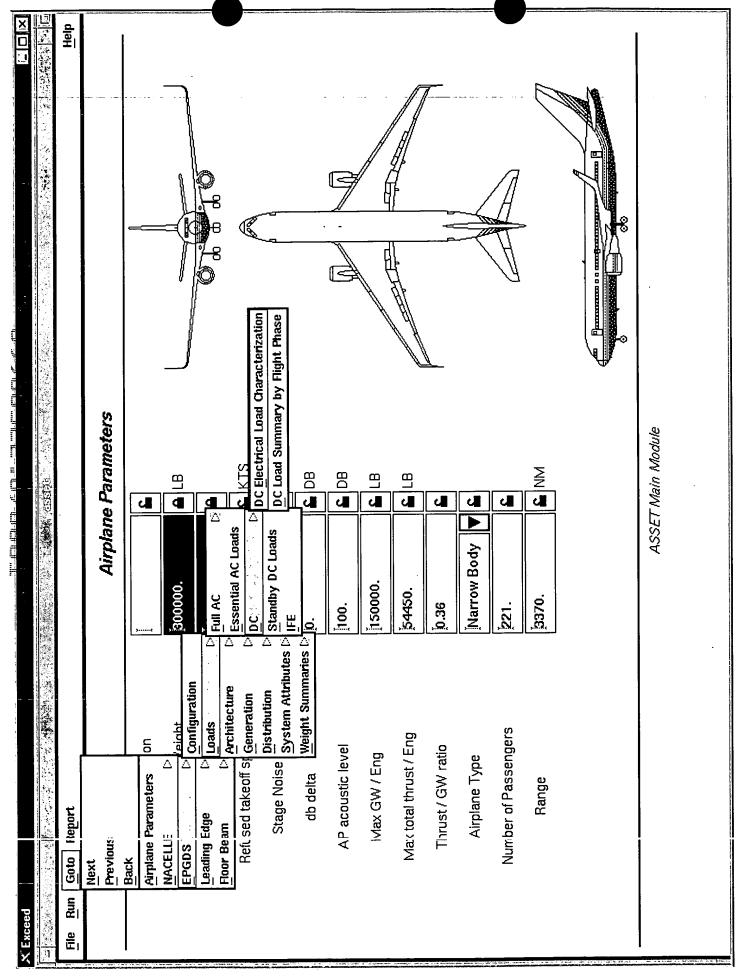
FIGURE 7C

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			AC Load Summary by Flight Phase	Jumm	ary by Fli	ight F	hase								. 1	
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	Quantity		Load per Unit	Jnit		Totals	
Number of Upper Secirculating Fans 2.0	u	(g)	Ĭ1.28	₽ KVA	Total Fan Load	15.38	KVA
Number of Lower Recirculating Fans 0.0	u u	@ <>	Ĭ1.98	₽ KVA			
Number of E/E Caoling Supply Fans 2.0	녜	(g)	j3.20	₽ KVA			
Number of E/E Cooling Vent Fans 2.0	u	@	ja.20	₽ KVA			
]			
Number of Hydraulic ACMP Pumps 2.0	u u	@	6.41	₽ KVA	Total Pump Load	23.30	₽ KVA
Number of Fuel Boost Pumps 6.0	ull	6	Ĭ1.75	₽ KVA			
Number of Fuel Override Pumps 0.0	0	@ \$, 4.66	₩ KVA			
]	Passenger Load	Ĭ7.08	₽ KVA
Easeline Flight & Electronics, Ice & Rain	nics, Ice & R	ain	ğ.75	₽ KVA	Baseline Flight & Electronics Total Load	Ĭ13.10	₽ KVA
Baseline Flight & Electronics, Electronics	nics, Electror	soir	je.35	₽ KVA			
]	Subtotal of Essential Loads	58.86	₽ KVA
					General Feeder Loss	4.12	₽ KVA
					Total of Essential Loads	Ĭ62.98	₽ KVA
100	:		ASSET	ASSET EPGDS Method	P		

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		Goto Report			ATA Subsystems		21 Air Conditioning	22 Auto Flight	23 Communications (IFE, AVOD) <>	24 Electrical Power	25 Equipmen /Furnishings	26 Fire Frotection	27 Flighi: Cantrol	28 Fuel	29 Hydraulic Power System	30 Ice/Rairı Protection	31 Instruments	Maximum Flight Phase Direct Current Load	
X Exceed		File Run							23 Cam		25 E				788 H)E		Max	

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Pass	93	ш	Engine				<u> </u>	Take-Off				Descent	
Loading	<u>D</u> E		Start		Taxi-Out		∘ర	& Climb		Cruise		& Land	
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FIGURE 11B

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Maximum Flight Phase Direct Current Load	t Curre	nt Load	j139.90	96:	AMPS	S													
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ASSET EPGDS Method

	un Goto Report	Standby DC Loads	Emergency/Standby Load 81.59 💪 AMPS			60 ASSET EPGDS Method	
X Exceed							

FIGURE 12

FISURE 13

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Fleure 14

FICURE 16

FIGURE 17

FIGURE 18

FIGNAE 19

FISURE 20

ASSET Main Module

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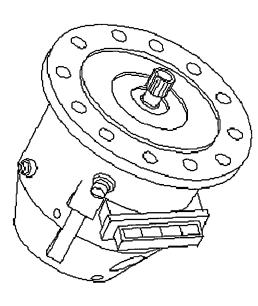
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APU Generator



In-Flight Operable APU

APU Generator Weight

APU Generator Capacity

Number of APU Generators

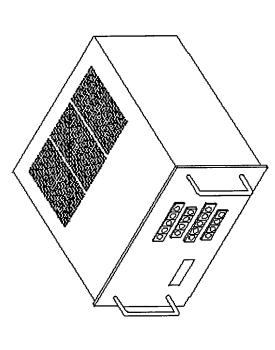
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FIGURE 24

FIGURE 25

Power Supply Assemblies (PSAs)



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 \$\mathbb{\mathbb{L}}\$ WATTS
 Number of Dedicated Batteries

 Dual Converter
 \$\mathbb{L}\$
 \$\mathbb{L}\$

 35.0
 \$\mathbb{L}\$
 \$\mathbb{L}\$

Converter Architecture

Output Power

PSA Cabinet Weight

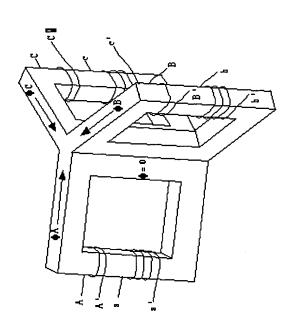
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Transformers

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Step-Up Transformer Capacity	Step-Up Transformer	Step-Down Transformer Capacity

Step Down Transformer Weight

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FIGURE 29

Fig. 8th Show Data for: MAIN	X Exceed	Aller hymnographs are presented to be an experienced designations.	Limite and the state of the sta	park, many space man representation of the space space	er en		permitted a minuted statement of the sta	The second secon	× -
Bus 13-60 Type 7 Feeder 1: * Wire Type, Feeder 2: * Page & Weight Wire Type, Feeder 1: BMS 13-60 Type 7 Call Base and Type 7 C				Transfer of				13. 13. 14. 15. 15. 15. 15. 15. 15. 15. 15. 15. 15	<u> ¥</u>
*** Wire Type & Weight *** BMS 13-60 Type 7 ▼ ♣ ★ Feeder 1: ★ ½.4 *** BMS 13-60 Type 7 ▼ ♣ ★ Feeder 2: ★ ½.4 *** BMS 13-60 Type 7 ▼ ♣ ★ Feeder 2: ★ ½.4 *** BMS 13-60 Type 7 ▼ ♣ ★ Feeder 2: ★ ½.3 *** BMS 13-35 Type 1 ▼ ♣ ★ Feeder 3: ★ ½.3 *** BMS 13-35 Type 1 ▼ ♣ ★ Feeder 4: ★ ½.3 *** BMS 13-35 Type 1 ▼ ♣ ★ Feeder 4: ★ ½.3 *** BMS 13-35 Type 1 ▼ ♣ ★ Feeder 4: ★ ½.3 *** BMS 13-35 Type 1 ▼ ♣ ★ Feeder 4: ★ ½.3 *** BMS 13-36 Type 1 ▼ ♣ ★ Feeder 5: ★ ½.3 *** BMS 13-60 Type 22 ▼ ♣ ★ Feeder 5: ★ ½.3 *** BMS 13-60 Type 22 ▼ ♣ ★ № ★ №	Run Goto							ΞI	dia
SMS 13-60 Type 7 ▼ ► Feeder 1: > 11.2 SMS 13-60 Type 7 ▼ □ □ Feeder 2: > 12.5 SMS 13-60 Type 7 ▼ □ <th></th> <th></th> <th>Wire Type</th> <th>& Weight</th> <th></th> <th></th> <th></th> <th></th> <th></th>			Wire Type	& Weight					
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SMMS 13-60 Type 7 ■ ■ Feeder 2: 2:4 ** BMS 13-60 Type 7 ■ ■ Feeder 2: ** £.4 ** BMS 13-60 Type 7 ■ ■ Feeder 3: ** £.3 ** BMS 13-35 Type 1 ■ ■ ■ ■ ■ ■ ■ Eeder 4: ** £.3 ** BMS 13-35 Type 1 ■ ■ ■ ■ ■ Eeder 4: ** £.3 ** BMS 13-35 Type 1 ■ ■ ■ ■ ■ Eeder 4: ** £.3 ** BMS 13-60 Type 22 ■ ■ ■ Eeder 5: ** £.3 ** BMS 13-60 Type 22 ■ ■ Eeder 5: ** £.3 ** £.3 ** BMS 13-60 Type 22 ■ ■ Eeder 5: ** £.3 ** £.3 ** BMS 13-60 Type 22 ■ ■ BMS 13-60 Type 22 ■ ■ BMS 13-60 Type 23 ■ ■ ● <t< td=""><td>Wire Type, Feeder 1:</td><td></td><td></td><th></th><td>Feeder 1:</td><td></td><td></td><td>B) LB</td><td></td></t<>	Wire Type, Feeder 1:				Feeder 1:			B) LB	
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\$\text{BMS 13-60 Type 7}\$ \$\blacktrian{\text{C}}{\text{E}}\$ Neutral 2: \$\text{I1.7}\$ \$\text{BMS 13-35 Type 1}\$ \$\blacktrian{\text{C}}{\text{E}}\$ \$\text{Feeder 3:}\$ \$\text{I1.7}\$ \$\text{BMS 13-35 Type 1}\$ \$\blacktrian{\text{E}}{\text{E}}\$ \$\text{Feeder 4:}\$ \$\text{I1.4.7}\$ \$\text{BMS 13-35 Type 1}\$ \$\blacktrian{\text{E}}{\text{E}}\$ \$\text{E}\$ \$\text{Feeder 4:}\$ \$\text{I1.4.7}\$ \$\text{BMS 13-60 Type 22}\$ \$\blacktrian{\text{E}}{\text{E}}\$ \$\text{E}\$ \$\text{Feeder 5:}\$ \$\text{I0.0}\$ \$\text{BMS 13-60 Type 22}\$ \$\blacktrian{\text{E}}{\text{E}}\$ \$\text{In.17}\$ \$\text{I0.0}\$	Wire Type, Feeder 2:	J L		!	Feeder 2:			81 4	
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<> jBMS 13-35 Type 1 ▼ □ IBMS 13-60 Type 22 ▼ □ IBMS 13-60 Type 22 IBMS 1	Wire Type, Feeder 4:		Type 1	u u	Feeder 4:			E E	
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TRU Feeder Weight 6.4
Total Wire Weight

87 **3**

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Number of Main Generators per Airplane

Average Number of Flights per Year per Airplane

Average Flight Hours per Flight

Airplane Fleet Size

Length of System Life in Years (1 - 30 Yrs,)

Average Non-fuel Inflation Rate beyond Present Year

Minimum Attractive Rate of Return

		HRS		YEARS	<u>%</u>	<u>%</u>
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ASSET EPGDS Method

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Fuel Costs

Fuel Cost per Gallon, Base Year

₽ DOLLARS

0.49

HRS^-1

0.0310

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% **4**

0.035

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Lbs Fuel Burned / Flight Hour / Lb Additional Weight System Weight (per airplane) System Direct Horsepower Requirement (per airplane)

System Drag Horsepower Requirement (per airplane)

System Cooling Horsepower Requirement

System Pound of Fuel per Block Trip (per airplane)

Average Fuel Inflation Rate Beyond Present Year

Fuel Cost (NPV of Life Cycle Cost)

Fuel Cost per Airplane per Year

E DOLLARS **IB60. B** DOLLARS

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₽ DOLLARS 1787786. ₽ DOLLARS ₽ DOLLARS 3137786. 9478.

Spares Cost (NPV of Life Cycle Cost)

Spares Cost per Airplane per Year

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Direct Labor Rate per Hour

Maintenance Labor Burden Factor

Mean Time Between Unscheduled Removals

Line Labor Hours Required per Removal

Line Labor Hours per Maintenance Action (Non-Removal)

Maintenance Actions per 1000 Flight Hours (Non-Removal)

₽ DOLLARS 73673.

Line Maintenance Cost (NPV of Life Cycle Cost)

Line Maintenance Cost per Airplane per Year

₽ DOLLARS/HOUR HRS^-1 HRS HRS HRS U u 12000. 21.00 0.50 0.5

₽ DOLLARS , 223.

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Shop Maintenance Costs		
Direct Labor Rate per Hour	Ž1.00	₽ DOLLARS/HOUR
Maintenance Labor Burden Factor	Ž.4	
Mean Time Between Unscheduled Removals	Ĭ12000.	■ HRS

DOLLARS	₄	Ď.	Overhaul Materials Cost per Overhaul
DOLLARS	۷	ĕ7500.	Average Shop Material Cost per Failure, base year
HRS	₄	0.0	Shop Labor Hours per Overhaul
HRS	₄	48.0	Shop Labor Man-Hours per Failure (Repair and Test)
HRS	u u	<u>.</u> 8.0	Shop Labor Man-Hours per Unconfirmed Failure (Test Time)
HRS	u	ŏ.	Mean Time Between Overhauls
HRS	₄	ž6000.	Main Generator Mean Time Between Failures
HRS	u	Ĭ12000.	Mean Time Between Unscheduled Removals
	u	2.4	Maintenance Labor Burden Factor
DOLLARS/H	ᆁ	21.00	Direct Labor Rate per Hour

Shop Maintenance Cost (NPV of Life Cycle Cost) Shop Maintenance Cost per Airplane per Year

DOLLARS ₽ DOLLARS 6819057. 20597.

HRS^-1	u	jo.00	Scheduled Maintenance Material Dollars per 1000 Flight Hours
	u	0.0	Rectification Man Hours per 1000 Flight Hours
	u u	Ĭ.0	Schedule Maintenance Inspection Man Hours per 1000 Flight Hours
HRS	u	Ĭ12000.	Mean Time Between Unscheduled Removals
	u	2.4	Maintenance Labor Burden Factor
DOLLARS/HOU	4	21.00	Direct Labor Rate per Hour

DOLLARS	DOLLARS
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Scheduled Maintenance Cost (NPV of Life Cycle Cost)

Scheduled Maintenance Cost per Airplane per Year

Average Delay Cost per Delay Hour
Average Cancellation Cost per Cancellation
Average Air Turnback Cost per Turnback
Average Diversion Cost per Diversion

Ĭ10300.	4	DOLLARS/HOUR
ž1000.	녜	
,36700.	u	DOLLARS
, 4 3000.	4	DOLLARS

Number of Delays per 100 Departures Average Delay Time (Hours) Number of Cancellations per 100 Departures Number of Air Turnbacks per 100 Departures Number of Diversions per 100 Departures

₄	HRS	u	녜	녜
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493999. DOLLARS

Schedule Interruptions Cost (NPV of Life Cycle Cost)

Schedule Interruptions Cost per Airplane per Year

ASSET EPGDS Method

FIGURE 45

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<u>File Run Goto Feport</u>				Hetp
		_	Reliability Inputs	
Average Flight Hours per Flight) 3.40	₄	IFSD Rates (per 1000 flight hours)	
LR:JMTBF's			Engine In-flight Shutdowns per 1000 hours	0.010 ■ HRS^-1
Main Generator MTBF	že000.	u	APU In–flight Shutdowns per 1000 hours	
APU Generator MTBF	ž0000.	u		-
VSCF Backup Generator MTBF	ž0000.	u	Failure to Start Probabilities	-
Generator Control Unit (GCU) MTBF	ž20000.	u u	APU No-Start Probability	Ď.010
Backup Converter MTBF	Ĭ15000.	4		
Generator Control Breaker (GCB) MTBF	,300000.	u u	Probability of RAT Unavailable when Required	§.2e−03
			Other Failure Rates (per flight hour)	
Ram Air Turbine MTBF	Ĭ10000.	₄	Rate of Other Channel Faults	Ĭ 1.2e-05
RAT Gen. Control Unit MTBF	,40000°.	u u	Main Generator Shaft Shear Rate	3.0e-06
Permanent Magnet Generator (PMG) MTBF	420000.	u ∎	Backup Generator Shaft Shear Rate	Ĭ1.2e-05 ⊆ HRS^-1
Main and APU Battery MTBF	Ž2000.	u		
Main and APU Battery Charger MTBF	, 30000.	u I		

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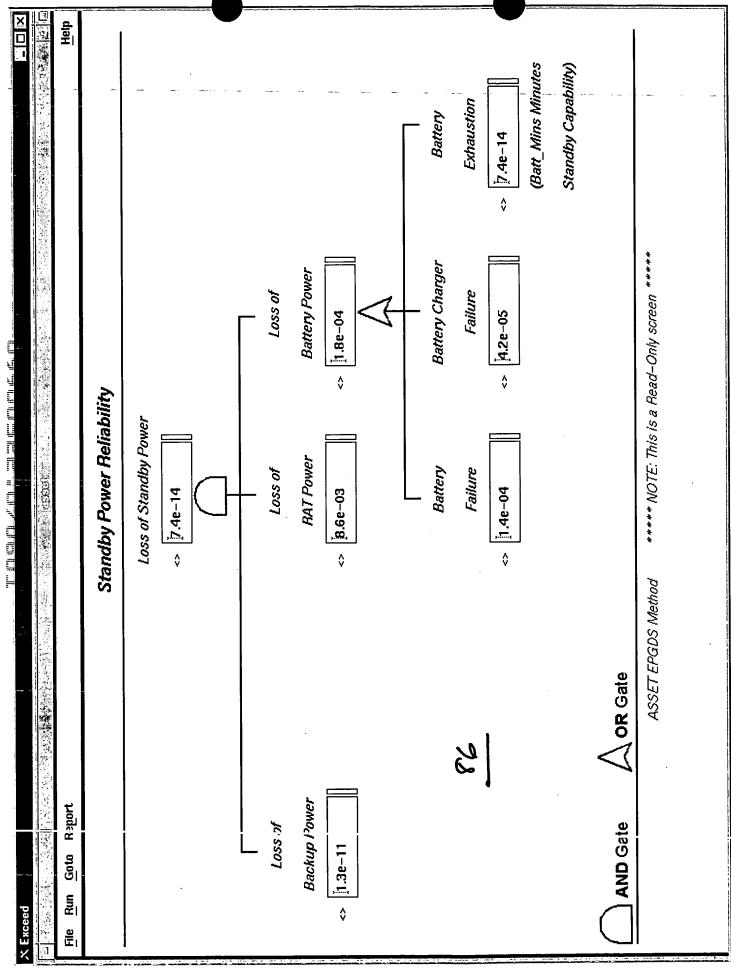


FIGURE SI

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3 .	Times		
	Unscheduled	Servicing	Alignment &
	Removals		Adjustment
Maintenance Preparation Times (Flight Hours)			
Main Generator Unscheduled Removal Maintenance Coordination Time	0.10 ₽	<> 0.10 S	<> j0.10 _
Main Generator Unscheduled Removal Dispatch Delay Time	0.20 ₽		
Main Generator Unscheduled Removal Airplane Ferrying Time	Ĭ.00		
Main Generator Unscheduled Removal Supply Delay Time	o.	<> Ď.10 <>	
Main Generator Unscheduled Removal Spares & Equipment Issuing Time	Ď.50		<> j0.50 \$
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Main Generator Unscheduled Removal Maintenance Delay Time	ğ.70	<> j0.10	<> 0.10 •
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ASSET EPGDS Method

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Maintenance Preparation Times(Flight Hours)		
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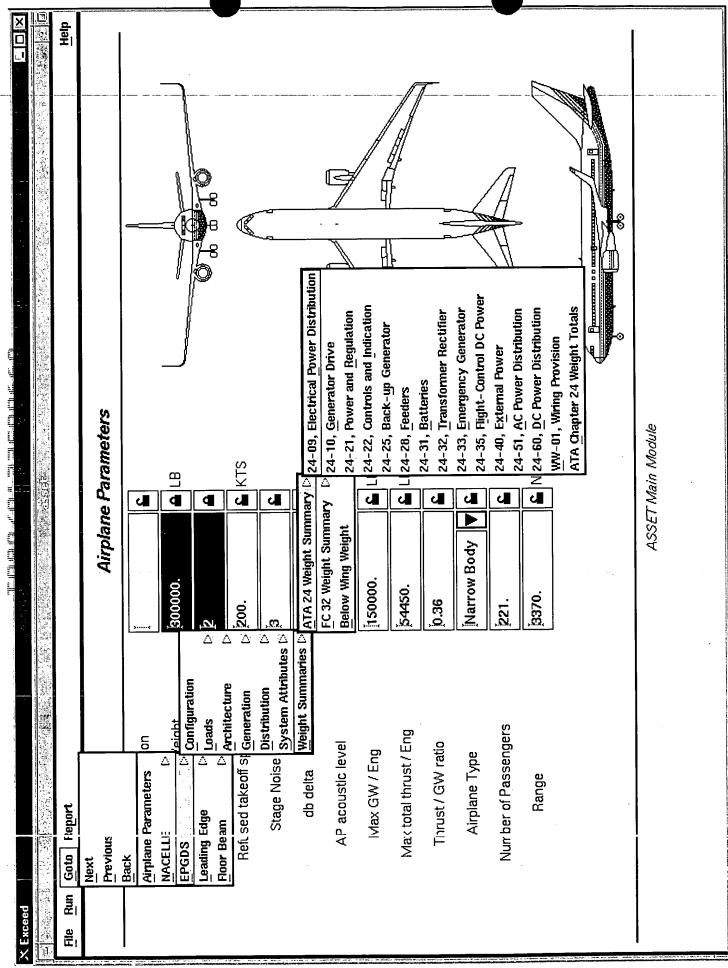


FIGURE SS

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				24-22, Controls and Indication	ınd Indi	cati	uo										
	Comporent #	<u></u>		Component Designation			Quantity	ity		Unit Wt	<i>\</i>		S	Subtotal	,		
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				ASSET EPGDS Method	S Method										-		

FICURE 59

	Fiedort	24-25, Back-up Generator	Component Designation Quantity Unit Wt Subtotal	2 <> PMG Back-Up Generator, INBD R	S <> PMG Back-Up Generator, INBD L S <> 1 S <> 5.0 S LB <> 5.0 S LB	S VSCF Generator, INBD R S VSCF Gener	C C C	r SCF Converter, INBD R *> 1	r SCF Converter, INBD L S -> 1 S -> 1 LB -> 43.1 LB ->	B1	B	B1	B1	B <> 0.0 <> B 0.0 <> B 0.0 <> D 0.0	B <> 0.0 <> B 0.0 <=	B + j0 0	ATA 24–25, Back-up Generators	ASSET EPGDS Method
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				24–31, Batteries	S										1
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\$	<u>j</u> M24015	u u	\$	Main Battery Charger	\$ ا يا	,,	4		13.0		\$ В	ĭ13.0	4	LB	
\$	M24014	4	\$	APU Battery Charger	\$ 4	<u>،</u> ر	녜	^	13.0	u u	\$ ⊞	13.0	4	EB.	
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			24-35, Flight-Control DC Power	OC Po	wer									
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\$	FCDC Batt	\$ 4	FCDC Battery	\$ 4	, .	ᆁ	\$	14.3	4	⇔ 81	42.9			
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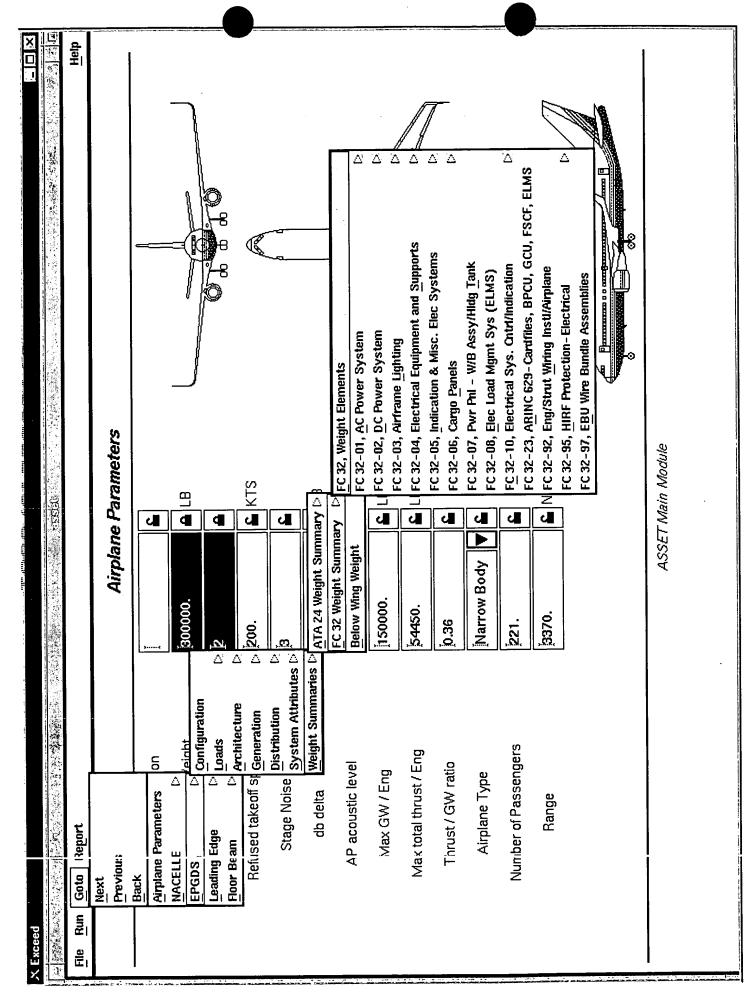
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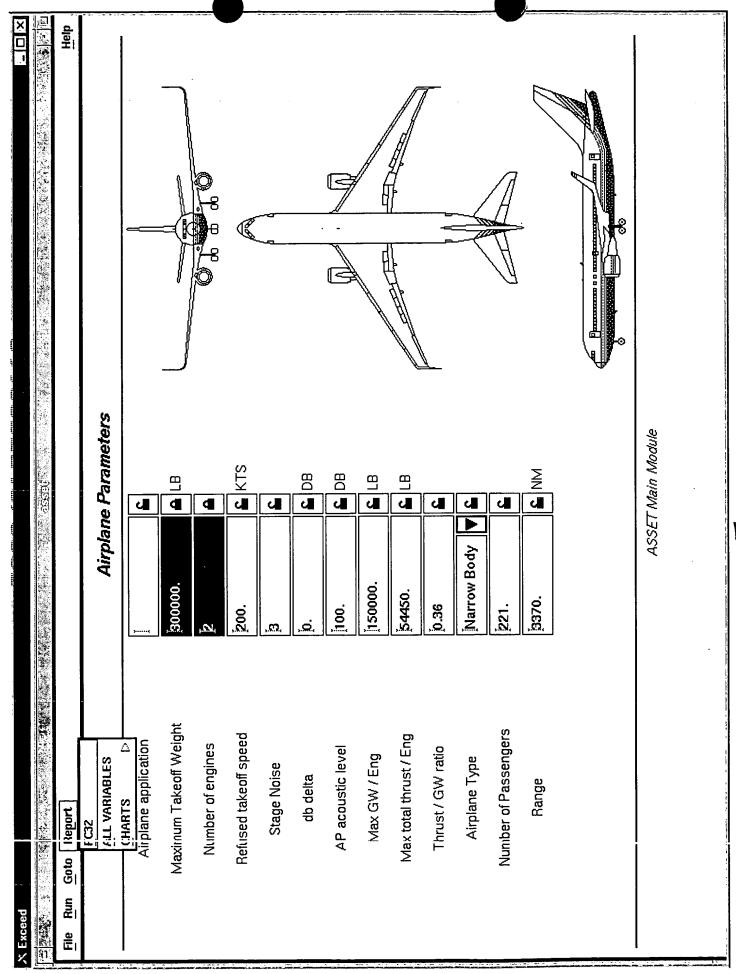
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				WW-01, Wiring Provision	vision											
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FIGURE 69

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ATA Chapter 24 Weight Totals	Totals	
ATA 24–09, Electrical Power Distribution	§55.1 ₽ LB	
ATA 24-10, Generator Drive	113.6 LB	
ATA 24-21, Power and Regulation	ž82.2	
ATA 24-22, Controls and Indication	15.0 LB	e de la constante de la consta
ATA 24–25, Back-up Generators	Ĭ172.4 E LB	÷.
ATA 24-28, Feeders	ž74.4 ₽ LB	
ATA 24-31, Batteries	Ž38.0	
ATA 24-32, Transformer Rectifier	ğ 4.4	
ATA 24-33, Emergency Generator	Ĭ100.7	-
ATA 24-35, Flight-Control DC Power	ž11.8 S LB	
ATA 24-40, External Power	ž9.5	
ATA 24-51, AC Power Distribution	Ĭ106.0	
ATA 24–60, DC Power Distribution	49.4	
WW-01, Wiring Provision	Ĭ152.6 2 LB	
Electrical Power Generation & Distribution System	ž498.0 ₽ LB	
ASSET EPGDS Method		





FISUDE 12

FIGURE 93

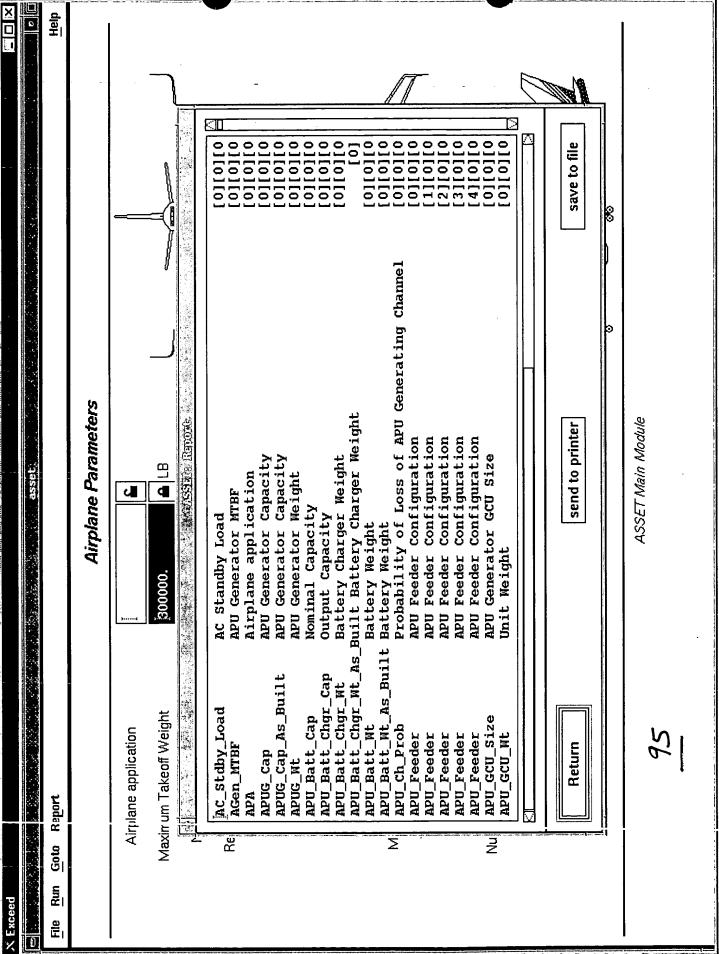


FIGURE 94

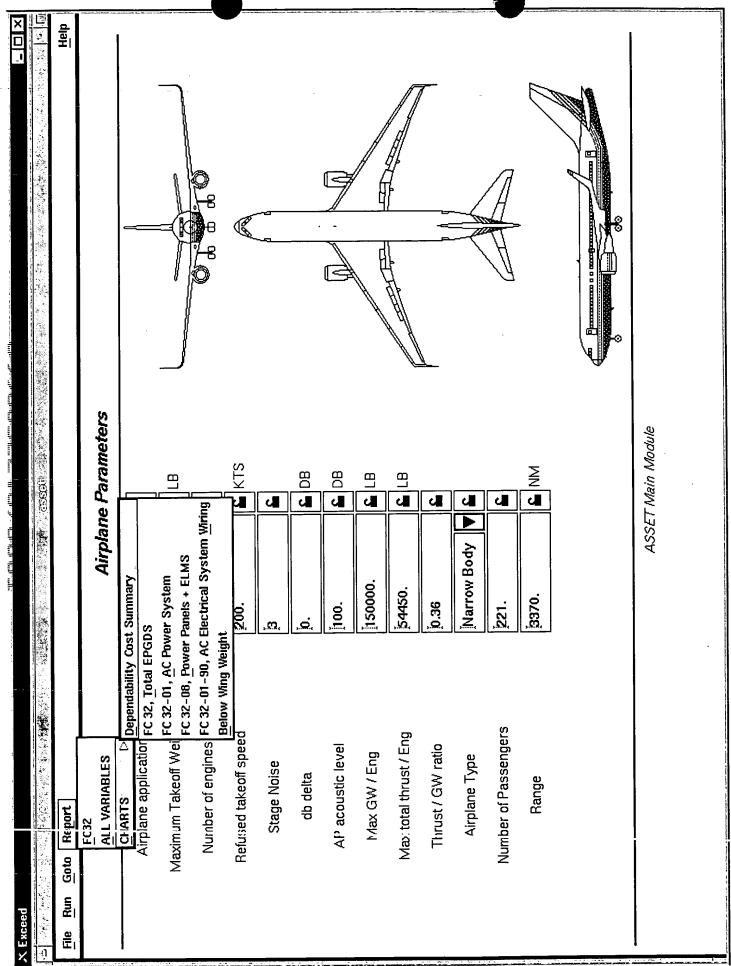


FIGURE 75

GAME 12

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FLEURE 18

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FIGURE

FISURE 80

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